

Abstract of the Disclosure

A method for voltage stabilization of an electrical power network system including a producing power network system side, a consuming power network side including a power load, a power transmission line with an impedance Z_{LN} , a transformer and an on-line tap changer added to the transformer. The impedance of the line is measured in case of dynamic instabilities. A transformer ratio n is controlled by changing a voltage reference V_{ref} of the on-line tap changer. The voltage reference is changed according to a feed forward compensation from the impedance of the line.